20030901.ba v03_n536.bam.20030901

>From ???@??? Mon Sep 1 00:00:27 2003 -0500
Message-Id: <200309010500.h8150JM8013801@sco.theporch.com>
Date: Mon, 1 Sep 2003 00:00:04 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3536

BOATANCHORS Digest 3536

Topics covered in this issue include:

1) Saved by the Internet
by "Arden Allen" <gumbear@pacbell.net>
2) Re: Call me old fashioned
by "Arden Allen" <gumbear@pacbell.net>
3) Re: RS-6
by "Hue Miller" <kargo_cult@msn.com>
4) Re: My post on switch contact ratings...
by "Herbert M. Rosenthal" <herbrose@comcast.net>
5) Snubber networks (was re: ac dc contact ratings)
by k4pf@juno.com
6) (no subject)
by "JAMES T HANLON" <knjhanlon@msn.com>
7) Re:
by "J.D. Mac Aulay, WQ8U" <jmac6235@yahoo.com>
8) Re: BOATANCHORS digest 3535
by "David M. Upton" <david@wb1cmg.mv.com>

Message-ID: <000601c36ffc$9f2af460$4ce57443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Saved by the Internet
Date: Sun, 31 Aug 2003 13:15:20 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I found Boraxo hand cleaner in the 12 oz. dispenser cans at <www.thedialstore.com>. Look in "hard to find items." Six cans at $2.50 ea. minimum order. My pinkies are happy again.

Arden Allen
KB6NAX
Vallejo, CA 94590

gumbear@pacbell.net

Message-ID: <001e01c36ffd$4603a980$4ce57443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Call me old fashioned
Date: Sun, 31 Aug 2003 13:20:01 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hi Dick;

> Rest easy, old timer. See: ....

I've heard of obsessive hand washing but never obsessive handwashing collectables. No, no, not another house full ....!!!

Arden

From: "Hue Miller" <kargo_cult@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: RS-6
Date: Sun, 31 Aug 2003 13:52:02 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID: <BAY5-DAV94Z0ViLDhoB000268f0@hotmail.com>

Marty, i think the RS-6 qualifies as "clandestine" at least, because Operation Armageddon's use for it would be behind enemy lines.

Also, senator Magnussen (sp??) would be WA state, right?
Hue

Message-ID: <3F52654D.9BA31C5@comcast.net>
Date: Sun, 31 Aug 2003 15:14:53 -0600
From: "Herbert M. Rosenthal" <herbrose@comcast.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: My post on switch contact ratings...
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Thanks to all who took time to share their knowledge on this subject with me. Items discussed were:

1. Use of snubbers-a series RC-across the contacts to prevent the arc. This will increase the dc current capability (without arcing) of most all switches. I never thought of these.

2. Using marine electric components which often have a high DC current rating. I suppose some RV gear would also qualify.

3. Use of a deep discharge battery instead of a sealed lead acid battery (SLA). These will obviously have a much higher AH rating. Most folks I know who use these have them outdoors in a dog house of some sort, so they can vent to the outside and not pose a fire/explosion/stinky smell source within the shack. I don't want to do this. We use these batteries every Field Day, and one club member keeps them up throughout the year-and charges them on his solar panel for the additional points for the first few QSOs.. Automotive batteries are not suitable for prolonged use, as we all know, but would certainly be useable in a short term emergency situation-even indoors, never mind the stinky odor.

4. The commercial Rig Runner DC distribution panel (QST) was suggested (MFJ also makes several). I saw this line at the Hamfest here last week-they look very well built, but I don't want the distribution leads plugging into the front of the panel, but rather in the rear. I'll have the fuses and the individual switches, plus the leds and the power source transfer switch in front... just personal choice.

5. One person pointed out that the high current rating of automotive starter relays is for a short time-a few seconds, and that continuous use with high current would cause the relay to overheat.

6. Yes, it's the zero crossing of ac that prevents an arc, whereas there's nothing to extinguish a dc arc except spacing..

7. Contacts may be mounted vertically in a high current relay so the heat can be dissipated upwards and not mounted horizontally where the heat is trapped under the
upper contact and contributes to the arc. Not intuitive, and most every relay or contactor I've seen has the contacts parallel to the mounting base. But it is certainly doable.

8. Some contactors use a permanent magnet to 'blow out' the arc in high current contacts... the magnet repels the arc away from the contacts.

9 Energy conservation: on a small capacity battery such as my 24 AH SLA, it wouldn't be good practice to design with a bunch of relays which add unnecessarily to the drain on the battery; the correct design should have any

relays operate from the AC and connect the AC circuits. Then when the AC fails, the circuit would be transferred to the battery source, with no drain for relay coils.

This is not too important with large batteries and relays rated at 5 or 10 A (i.e. KRP series), as the coil wattage is about 2W, about 160 ma coil current at 12 V. But if you have a bunch of relays the current requirement adds up quickly. As is, I'll feel guilty using leds with limiting resistors to draw just a few mills each, to show that power is present on each branch circuit.... not needed, but nice to look at. Those great big contactors draw considerable coil current-probably an amp or so @12v due to the work involved in high contact pressure, distance of throw, whatever. I had a 250A DC contactor from some surplus thing that drew over an amp @ 24VDC coil current...SPST...

Thanks again, what a great place to drop a question, here on BA. I appreciate the time you spent replying to my question, and I am pleased to share the comments I
received..

I did some looking at RS and Auto Zone and the local surplus emporium after I posed the question. RS has nice 20A DC toggles ($2) in their automotive line-certainly good enough to cold-switch the several load branches I will have-most will be an amp max (keyer, DSP) while the FT840 key down 100W is no more than 16-18 A. The surplus place has 3AG panel mount fuse holders, new, for 75¢, and I have the inverter to run the rotator when needed-switch it on, rotate, switch it off. The verdict is still out for the connectors to use for each branch circuit-banana p/j, insukated RCA phono p/j ?? I did see some nice made-up RS cables with the molded 1/8" phone plug (one end stripped and tinned) used on most of my equipment for 12 V power in... these are meant to be audio cables
but will certainly carry an amp or less. I like the connectors used on the Rig Runner but cannot find the panel mounts (f) -the male cable ends are readibly available.

My big find (ebay, of course) was a NIB dual-step charger for the SLA battery-it charges first at 14.7 V@ 1 A max, then when the battery reaches this potential (current goes to zero), the charger
switches to a float of 13.8 volts constant voltage where it keeps the battery topped of at
maximum capacity.

It looks like a large wall wart with red and green leds, screw terminals for the battery leads... all this for $19.95 (retail $49.95). Although I'd like to have a max charging current of 2 or 4 A for quicker charging after discharge, I can live with this and save $50, the price
of the step up to a 2A charger.

A few of you have asked specific questions, such as regarding the big job of switching the input 12v from one or another battery or an AC supply, while charging the unused battery... I'll be in contact (ahem!) with you as I progress on the project.

Herb Rosenthal W5AN
Albuquerque

Mime-Version: 1.0
Date: Sun, 31 Aug 2003 21:50:30 GMT
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Snubber networks (was re: ac dc contact ratings)
Content-Type: text/plain
From: k4pf@juno.com
Message-Id: <20030831.145121.4590.150538@webmail01.lax.untd.com>

Hi, Gang

Those wishing to install a series R-C network across a switch or relay contact would do well to check out Figure 5 (pages 5 and 6) of the Hallicrafters manual for the T.O. Keyer model HA-1.

Hallicrafters provides a design chart, based on the open circuit voltage and closed circuit current seen by the contact. The chart was prepared by C.P. Clare & Co., of mercury-wetted relay fame.

73,
Ed   k4pf@juno.com

From: "JAMES T HANLON" <knjhanlon@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Date: Sun, 31 Aug 2003 16:59:14 -0600
MIME-Version: 1.0
Content-Type: multipart/alternative; boundary="----
=_NextPart_001_0000_01C36FE1.354EFE80"
Message-ID: <BAY4-DAV1248BXpez3R0002b04d@hotmail.com>

------=_NextPart_001_0000_01C36FE1.354EFE80
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

Hue,

My NC-173 has not experienced a power transformer failure, so that's a da=
ta point of one for you. A fuse in the power line couldn't hurt and migh=
t just save something.

73,

Jim, W8KGI

From: "Hue Miller" <kargo_cult@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: about NC-173 pwr xfmr failure
Date: Sun, 31 Aug 2003 00:10:03 -0700
MIME-Version: 1.0
Content-Type: text/plain;
 charset=3D"iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID: <BAY5-DAV45KDSpCW4uF00007b8b@hotmail.com>
I just read that NC-173 are supposedly prone to power transformer
failure. Is this true?
IF it is true, what takes them out? Is it internal failure, or is it exte=
rnal
failure? In the latter case, i could simply insert a wire fuse of say,
36 gauge wire, or something close.
Thanks- =20
Hue Miller

------=_NextPart_001_0000_01C36FE1.354EFE80
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---             *
*     This post contains a forbidden message format        *
*  (such as an attached file, a v-card, HTML formatting)   *
*    Mail Lists at theporch.com only accept PLAIN TEXT     *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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------=_NextPart_001_0000_01C36FE1.354EFE80--

Message-ID: <20030901001137.75686.qmail@web40811.mail.yahoo.com>
Date: Sun, 31 Aug 2003 17:11:37 -0700 (PDT)
From: "J.D. Mac Aulay, WQ8U" <jmac6235@yahoo.com>
Subject: Re:
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0

Content-Type: multipart/alternative; boundary="0-1143053963-1062375097=:73227"

--0-1143053963-1062375097=:73227
Content-Type: text/plain; charset=us-ascii

Hue, Jim, et.al:
I also have a good old NC-173 with the original power transformer and the number "X621" stamped on the chassis. Nice BA receiver - brings back lots of memories from 50s/60s. Not quite as good as the HRO-50 it sits on in the shack, but good.

Enjoy
73
Mac
WQ8U
P.S. Maybe we can get enough folks to respond to this thread to get some "statistically significant data"

JAMES T HANLON <knjhanlon@msn.com> wrote:

Hue,

My NC-173 has not experienced a power transformer failure, so that's a data point of one for you. A fuse in the power line couldn't hurt and might just save something.

73,

Jim, W8KGI

From: "Hue Miller"
To: Old Tube Radios
Subject: Re: about NC-173 pwr xfmr failure
Date: Sun, 31 Aug 2003 00:10:03 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
Message-ID:
I just read that NC-173 are supposedly prone to power transformer
failure. Is this true?
IF it is true, what takes them out? Is it internal failure, or is it external
failure? In the latter case, i could simply insert a wire fuse of say,
36 gauge wire, or something close.
Thanks-
Hue Miller

Do you Yahoo!?
Yahoo! SiteBuilder - Free, easy-to-use web site design software
--0-1143053963-1062375097=:73227
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---            *
*     This post contains a forbidden message format       *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT    *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
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--0-1143053963-1062375097=:73227--

Message-ID: <3F52B165.2581E777@wb1cmg.mv.com>
Date: Sun, 31 Aug 2003 22:39:33 -0400
From: "David M. Upton" <david@wb1cmg.mv.com>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: BOATANCHORS digest 3535
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

>From AA4RM:

Perhaps a 'boondogle radio' list/newsgroup? Hallicrafters village
radios
wud go as well here as RS6s.

How many of the list converted these to run on 2m or know of the
internal design? That was my first HT! Les Earnshaw, ZL1AAX, worked on
these. 9x multiplied 2nd LO for variable IF for 1st LO--whew!

David M. Upton, WB1CMG
MOnt Vernon, NH 03057

End of BOATANCHORS Digest 3536
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